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<110> Palmer, Michelle A.
Gee, Melissa
Tillotson, Bonnie
Chang, Xiao-Jia

<120> Receptor Function Assay for G-Protein Coupled Receptors and Orphan Receptors by Reporter Enzyme Mutant Complementation

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<141> 2000-09-01

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Gln Met His Gly Tyr Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr Pro
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Ile Thr Val Asn Pro Pro Phe Val Pro Thr Glu Asn Pro Thr Gly Cys
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B5 Cont

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Val Ala Ser Gly Thr Ala Pro Phe Gly Gly Glu Ile Ile Asp Glu Arg
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ggt ggt tat gcc gat cgc gtc aca cta cgt ctg aac gtc gaa aac ccg   2260
Gly Gly Tyr Ala Asp Arg Val Thr Leu Arg Leu Asn Val Glu Asn Pro
        255                 260                 265

aaa ctg tgg agc gcc gaa atc ccg aat ctc tat cgt gcg gtg gtt gaa   2308
Lys Leu Trp Ser Ala Glu Ile Pro Asn Leu Tyr Arg Ala Val Val Glu
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ctg cac acc gcc gac ggc acg ctg att gaa gca gaa gcc tgc gat gtc   2356
Leu His Thr Ala Asp Gly Thr Leu Ile Glu Ala Glu Ala Cys Asp Val
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Gly Phe Arg Glu Val Arg Ile Glu Asn Gly Leu Leu Leu Leu Asn Gly
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aag ccg ttg ctg att cga ggc gtt aac cgt cac gag cat cat cct ctg   2452
Lys Pro Leu Leu Ile Arg Gly Val Asn Arg His Glu His His Pro Leu
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cat ggt cag gtc atg gat gag cag acg atg gtg cag gat atc ctg ctg   2500
His Gly Gln Val Met Asp Glu Gln Thr Met Val Gln Asp Ile Leu Leu
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atg aag cag aac aac ttt aac gcc gtg cgc tgt tcg cat tat ccg aac   2548
Met Lys Gln Asn Asn Phe Asn Ala Val Arg Cys Ser His Tyr Pro Asn
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cat ccg ctg tgg tac acg ctg tgc gac cgc tac ggc ctg tat gtg gtg   2596
His Pro Leu Trp Tyr Thr Leu Cys Asp Arg Tyr Gly Leu Tyr Val Val
365                 370                 375                 380

gat gaa gcc aat att gaa acc cac ggc atg gtg cca atg aat cgt ctg   2644
Asp Glu Ala Asn Ile Glu Thr His Gly Met Val Pro Met Asn Arg Leu
                385                 390                 395

acc gat gat ccg cgc tgg cta ccg gcg atg agc gaa cgc gta acg cga   2692
Thr Asp Asp Pro Arg Trp Leu Pro Ala Met Ser Glu Arg Val Thr Arg
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atg gtg cag cgc gat cgt aat cac ccg agt gtg atc atc tgg tcg ctg   2740
Met Val Gln Arg Asp Arg Asn His Pro Ser Val Ile Ile Trp Ser Leu
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ggg aat gaa tca ggc cac ggc gct aat cac gac gcg ctg tat cgc tgg   2788
Gly Asn Glu Ser Gly His Gly Ala Asn His Asp Ala Leu Tyr Arg Trp
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B5 cont.

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gat gaa gac cag ccc ttc ccg gct gtg ccg aaa tgg tcc atc aaa aaa   2932
Asp Glu Asp Gln Pro Phe Pro Ala Val Pro Lys Trp Ser Ile Lys Lys
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Trp Leu Ser Leu Pro Gly Glu Thr Arg Pro Leu Ile Leu Cys Glu Tyr
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gcc cac gcg atg ggt aac agt ctt ggc ggt ttc gct aaa tac tgg cag   3028
Ala His Ala Met Gly Asn Ser Leu Gly Gly Phe Ala Lys Tyr Trp Gln
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gcg ttt cgt cag tat ccc cgt tta cag ggc ggc ttc gtc tgg gac tgg   3076
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gtg gat cag tcg ctg att aaa tat gat gaa aac ggc aac ccg tgg tcg   3124
Val Asp Gln Ser Leu Ile Lys Tyr Asp Glu Asn Gly Asn Pro Trp Ser
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gct tac ggc ggt gat ttt ggc gat acg ccg aac gat cgc cag ttc tgt   3172
Ala Tyr Gly Gly Asp Phe Gly Asp Thr Pro Asn Asp Arg Gln Phe Cys
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atg aac ggt ctg gtc ttt gcc gac cgc acg ccg cat cca gcg ctg acg   3220
Met Asn Gly Leu Val Phe Ala Asp Arg Thr Pro His Pro Ala Leu Thr
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gaa gca aaa cac cag cag cag ttt ttc cag ttc cgt tta tcc ggg caa   3268
Glu Ala Lys His Gln Gln Gln Phe Phe Gln Phe Arg Leu Ser Gly Gln
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acc atc gaa gtg acc agc gaa tac ctg ttc cgt cat agc gat aac gag   3316
Thr Ile Glu Val Thr Ser Glu Tyr Leu Phe Arg His Ser Asp Asn Glu
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ctc ctg cac tgg atg gtg gcg ctg gat ggt aag ccg ctg gca agc ggt   3364
Leu Leu His Trp Met Val Ala Leu Asp Gly Lys Pro Leu Ala Ser Gly
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gaa gtg cct ctg gat gtc gct cca caa ggt aaa cag ttg att gaa ctg   3412
Glu Val Pro Leu Asp Val Ala Pro Gln Gly Lys Gln Leu Ile Glu Leu
            640                 645                 650

cct gaa cta ccg cag ccg gag agc gcc ggg caa ctc tgg ctc aca gta   3460
Pro Glu Leu Pro Gln Pro Glu Ser Ala Gly Gln Leu Trp Leu Thr Val
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B5 Cont

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ccc gcc gcg tcc cac gcc atc ccg cat ctg acc acc agc gaa atg gat   3604
Pro Ala Ala Ser His Ala Ile Pro His Leu Thr Thr Ser Glu Met Asp
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Phe Cys Ile Glu Leu Gly Asn Lys Arg Trp Gln Phe Asn Arg Gln Ser
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ggc ttt ctt tca cag atg tgg att ggc gat aaa aaa caa ctg ctg acg   3700
Gly Phe Leu Ser Gln Met Trp Ile Gly Asp Lys Lys Gln Leu Leu Thr
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ccg ctg cgc gat cag ttc acc cgt gca ccg ctg gat aac gac att ggc   3748
Pro Leu Arg Asp Gln Phe Thr Arg Ala Pro Leu Asp Asn Asp Ile Gly
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gta agt gaa gcg acc cgc att gac cct aac gcc tgg gtc gaa cgc tgg   3796
Val Ser Glu Ala Thr Arg Ile Asp Pro Asn Ala Trp Val Glu Arg Trp
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aag gcg gcg ggc cat tac cag gcc gaa gca gcg ttg ttg cag tgc acg   3844
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gca gat aca ctt gct gat gcg gtg ctg att acg acc gct cac gcg tgg   3892
Ala Asp Thr Leu Ala Asp Ala Val Leu Ile Thr Thr Ala His Ala Trp
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cag cat cag ggg aaa acc tta ttt atc agc cgg aaa acc tac cgg att   3940
Gln His Gln Gly Lys Thr Leu Phe Ile Ser Arg Lys Thr Tyr Arg Ile
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gat ggt agt ggt caa atg gcg att acc gtt gat gtt gaa gtg gcg agc   3988
Asp Gly Ser Gly Gln Met Ala Ile Thr Val Asp Val Glu Val Ala Ser
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gat aca ccg cat ccg gcg cgg att ggc ctg aac tgc cag ctg gcg cag   4036
Asp Thr Pro His Pro Ala Arg Ile Gly Leu Asn Cys Gln Leu Ala Gln
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gta gca gag cgg gta aac tgg ctc gga tta ggg ccg caa gaa aac tat   4084
Val Ala Glu Arg Val Asn Trp Leu Gly Leu Gly Pro Gln Glu Asn Tyr
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Ser His Arg His Leu Leu His Ala Glu Glu Gly Thr Trp Leu Asn Ile
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His His His His His Arg
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B5 cont.

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ttccgcgcac atttc                                                  8175
```

B5. Cont